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|   | UTILITY  |                        | Attorn                                     | ey Docket l  | Vo. M   | MATI-224US               |           |  |  |  |
|---|--|------------------------|--|--|---|--------------------------|-----------|--|--|--|
| PATENT APPLICATION  |  |                        | First Ir                                   | irst Inventor Sathya R. Narayanan et al.   |   |                          |           |  |  |  |
| TRANSMITTAL   |  | Title                  | MULTI-HOP WIRELESS NETWORK DATA FORWARDING |  |   |                          |           |  |  |  |
| (Only for new nonprovisional applications under 37 C.F.R. 1.53(b))  |  | 37 C.F.R. 1.53(b))     | riue                                       | Title  |   |                          |           |  |  |  |
|   | <del> </del>   |                        | Expre                                      | ss Mail Lab  | el No.  | EL 992 92                |           |  |  |  |
| <br>  | APPLICATION ELE  | MENTS                  |  | DDRE   | SS TO   | ∩. Mail S                |           | er for Patents Itent Application           |  |  |
| See MPEP o  | chapter 600 concerning utility patent a  | pplication contents.   |  |  |   | Alexa                    | andria, \ | /A_22313-1450                              |  |  |
| (-  | Fee Transmittal Form (e.g., PTO/<br>Submit an original and a duplicate for fee pr  | ocessing               | l  | Cor  | nputer F  | Program (A               | ppendi    | ite, large table or ix) equence Submission |  |  |
|   | Applicant claims small entity statu<br>See 37 CFR 1.27.  | is.                    |  | · <u></u> -  |   | all necessa              | .,        | (CRE)                                      |  |  |
| ()<br>-   | Specification [Total Pages   2. (preferred arrangement set forth below - Descriptive title of the Invention - Cross References to Related Applications |                        |  | a. ☐ Computer Readable Form (CRF) b. Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ paper |   |                          |           |  |  |  |
|   | Statement Regarding Fed sponsored Reference to sequence listing, a table   | e,                     | -  |  |   |                          |           | ity of above copies                        |  |  |
|   | or a computer program listing appearance Background of the Invention   | IUIX                   | {  |  |   |                          |           | ICATIONS PARTS sheet & document(s))        |  |  |
| -<br>  -  | Brief Summary of the Invention<br>Brief Description of the Drawings ( if<br>Detailed Description<br>Claim(s)   | filed)                 | 1  | 0. 🔲 37  | C.F.R.§   | §3.73(b) St<br>sssignee) |           | 1  |  |  |
|   | Abstract of the Disclosure   | Shoots 7               | 1  |  | -   |                          |           | ent (if applicable)                        |  |  |
|   | 4. ☑ Drawing(s) (35 U.S.C.113) [Total Sheets 7]  |                        |  |  | 12. ☑ Information Disclosure ☐ Copies of IDS Statement (IDS)/PTO-1449 ☐ Citations |                          |           |  |  |  |
| a. 🛛  | Newly executed (original or copy   | Pages 8]               | 1  | 3. 🔲 Pr  | eliminar  | ry Amendm                | ent       |  |  |  |
|   | Copy from a prior application (3 (for a continuation/divisional with   |                        | 1  |  |   | eceipt Posto             |           |  |  |  |
| i. □ <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).     c. □ Unexecuted Declaration       |  |                        |  | (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed)         |   |                          |           |  |  |  |
|   |  |                        |  | 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.   |   |                          |           |  |  |  |
| 6. Application Data Sheet. See 37 CFR 1.76  |  |                        | 1  | 17. Other: Check Certificate of Express Mail   |   |                          |           |  |  |  |
| 18. If a CON  | ITINUING APPLICATION, check app  | propriate box, and sup | oply the                                   | requisite .  |   |                          |           |  |  |  |
| or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) Of prior application No: /  Prior application information Examiner Group / Art Unit: |  |                        |  |  |   |                          |           |  |  |  |
| under Box 5   | IUATION or DIVISIONAL APPS only<br>5b, is considered a part of the discl<br>The incorporation <u>can only</u> be relied                                | osure of the accompa   | anying (                                   | continuation   | on or div   | risional appl            | lication  | and is hereby incorporated by              |  |  |
|   |  | 19. CORRESP            | ONDE                                       | NCE ADD  | RESS  |                          |           |  |  |  |
| -   |  | er 23122               |  | O.   | R [   | Corres                   | sponde    | ence address below                         |  |  |
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| Country   |  | Telephone              | <u> </u>                                   |  |   | Fa                       | X         |  |  |  |
| Name (Prir  | nt/Type) Kenneth N. Nig  | on                     | Reg  | istration l  | Vo. (Atto   | orney/Agen               | t)        | 31,549                                     |  |  |
| Signature   | 11/1/1   | NX Z                   |  |  |   | Da                       | te        | September 16, 2003                         |  |  |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (05-03) (AW 07/03)
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| EEE TO ANOMITTAL  |                                |                             |             |                    | Complete if Known   |             |  |
|---|--------------------------------|-----------------------------|-------------|--------------------|---|-------------|--|
| FEE TRANSMITTAL   | Appli                          | cation N                    | Number      | T                  | o Be Assigned   |             |  |
| for FY 2003   | Filing                         | Date                        |             | +                  | derewith  |             |  |
| Effective 01/01/2003. Patent fees are subject to annual revision.   | First                          | Named                       | Invento     | or S               | Sathya R. Narayanan et al.  |             |  |
| Applicant claims small entity status. See 37 CFR 1.27   |                                | Examiner Name               |             |                    | To Be Assigned  |             |  |
| Applicant claims small entity status. See 37 CFR 1.27   | Art Unit                       |                             |             |                    | To Be Assigned  |             |  |
| TOTAL AMOUNT OF PAYMENT (\$) 958  | Attorney Docket No. MATI-224US |                             |             |                    |   |             |  |
| METHOD OF PAYMENT (check all that apply)  |                                | FEE CALCULATION (continued) |             |                    |   |             |  |
| ☐ Check ☐ Credit Card ☐ Money ☐ Other ☐ None  | 3. AD<br>Large                 |                             | AL FEE      | <b>S</b><br>Entity |   |             |  |
| Order  Deposit Account:   | Fee<br>Code                    | Fee<br>(\$)                 | Fee<br>Code | Fee<br>(\$)        | Fee Description   | Fee<br>Paid |  |
| Deposit<br>Account 18-0350  | 1051                           | 130                         | 2051        | 65                 | Surcharge - late filing fee or oath   |             |  |
| Number<br>Deposit   | 1052                           | 50                          | 2052        | 25                 | Surcharge - late provisional filing fee or cover sheet.                       |             |  |
| Account RatnerPrestia   | 1053                           | 130                         | 1053        | 130                | Non-English specification   |             |  |
| The Commissioner is authorized to: (check all that apply)   | 1812                           | 2,520                       | 1812        | 2,520              | For filing a request for ex parte reexamination                               |             |  |
| ☐ Charge fee(s) indicated below ☐ Credit any overpayments   | 1804                           | 920*                        | 1804        | 920°               | Requesting publication of SIR prior to<br>Examiner action                     |             |  |
| <ul> <li>□ Charge any additional fee(s) during the pendency of this application</li> <li>□ Charge fee(s) indicated below, except for the filing fee to the</li> </ul> | 1805                           | 1,840*                      | 1805        | 1,840              | <ul> <li>Requesting publication of SIR after<br/>Examiner action</li> </ul>   |             |  |
| above-identified deposit account.   | 1251                           | 110                         | 2251        | 55                 | Extension for reply within first month  |             |  |
| FEE CALCULATION   | 1252                           | 410                         | 2252        | 205                | Extension for reply within second month                                       |             |  |
| 1. BASIC FILING FEE   | 1253                           | 930                         | 2253        | 465                | Extension for reply within third month  |             |  |
| Large Entity Small Entity   | 1254                           | 1,450                       | 2254        | 725                | Extension for reply within fourth month                                       |             |  |
| Fee Fee Fee Fee Description  Code (\$) Code (\$) Fee Paid   | 1255                           | 1,970                       | 2255        | 985                | Extension for reply within fifth month  |             |  |
| 1001 750 2001 375 Utility filing fee 750  | 1401                           | 320                         | 2401        | 160                | Notice of Appeal  |             |  |
| 1002 330 2002 165 Design filing fee   | 1402                           | 320                         | 2402        | 160                | Filing a brief in support of an appeal  |             |  |
| 1003 520 2003 260 Plant filing fee<br>1004 750 2004 375 Reissue filing fee  | 1403                           | 280                         | 2403        | 140                | Request for oral hearing  |             |  |
| 1005 160 2005 80 Provisional filling fee  | 1451                           | 1,510                       | 1451        | 1,510              | Petition to institute a public use proceeding                                 |             |  |
| SUBTOTAL (1) (\$) 750   | 1452                           | 110                         | 2452        | 55                 | Petition to revive - unavoidable  |             |  |
|   | 1453                           | 1,300                       | 2453        | 650                | Petition to revive - unintentional  |             |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE  Extra Fee from Fee   | 1501                           | 1,300                       | 2501        | 650                | Utility issue fee (or reissue)  |             |  |
| Claims below Paid   | 1502                           | 470                         | 2502        | 235                | Design issue fee  |             |  |
| Total Claims 20 -20** = 0 X = 0  adependent 5 -3** = 2 X 84 = 168   | 1503                           | 630                         | 2503        | 315                | Plant issue fee   |             |  |
| Claims 5 -3** = 2 X 84 = 168  | 1460                           | 130                         | 1460        | 130                | Petitions to the Commissioner   |             |  |
| Dependent X = 0   | 1807                           | 50                          | 1807        | 50                 | Processing fee under 37 CFR 1.17(q)   |             |  |
| Large Entity Small Entity Fee Fee Fee Fee   | 1806                           | 180                         | 1806        | 180                | Submission of Information Disclosure Stmt                                     |             |  |
| Fee Fee Fee Fee Description  Code (\$) Code (\$)  | 8021                           | 40                          | 8021        | 40                 | Recording each patent assignment per<br>property (times number of properties) | 40          |  |
| 1202 18 2202 9 Claims in excess of 20   | 1809                           | 750                         | 2809        | 375                | Filing a submission after final rejection (37                                 |             |  |
| 1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid   | 1810                           | 750                         | 2810        | 375                | CFR § 1.129(a)) For each additional invention to be                           |             |  |
| 1204 84 2204 42 ** Reissue independent claims over  |                                |                             |             |                    | examined (37 CFR § 1.129(b))  |             |  |
| original patent   | 1801                           | 750                         | 2801        | 375                | Request for Continued Examination (RCE)                                       |             |  |
| 1205 18 2205 9 Reissue claims in excess of 20 and over original patent  | 1802                           | 900                         | 1802        | 900                | Request for expedited examination of a design application                     |             |  |
| SUBTOTAL (2) (\$) 168   | Other                          | fee (spe                    | cify)       |                    |   |             |  |
|   |                                | . ,                         | Basic Fil   | ling Fe            | e Paid SUBTOTAL (3) (\$) 40   |             |  |
| **or number previously paid, if greater; For Reissues, see above  |                                |                             |             |                    | (4) 40  |             |  |

SUBMITTED BY Complete (if applicable) Kenneth N. Nigon Name (Print/Type) Registration No. Attorney/Agent) 31,549 Telephone (610)407-0700 Signature September 16, 2003

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| Serial No. To Be Assigned Herewith  To Be Assigned  To Be Trans. In duplicate; Specification (24 pgs.); Drawings (7 sheets); Decli/POA (19 pgs.); 1595; Assignment (2 pgs.); IDS (2 pgs.); 1449; Check; Postcard  To Be Assigned  To Be Assigned | p                           | NG BY "EXPRESS MA<br>rayanan et al. | IL" (37 CFR 1.10)                 | Docket No.<br>MATI-224US     |  |
|--|-----------------------------|-------------------------------------|-----------------------------------|------------------------------|--|
| ention: MULTI-HOP WIRELESS NETWORK DATA FORWARDING  I hereby certify that the following correspondence:  Utility Trans. (1 pg.); Fee Trans. in duplicate; Specification (24 pgs.); Drawings (7 sheets); Decl/POA (pgs.); 1595; Assignment (2 pgs.); IDS (2 pgs.); 1449; Check; Postcard  (Identify type of correspondence)  Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under a commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450  Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450  September 16, 2003  Kathleen Libby  (Typed or Printed Name of Person Mailing Correspondence)  EL 992 923 462 US  ("Express Mail" Mailing Label Number)  | Serial No.                  | Filing Date                         | Examiner                          | Group Art Unit               |  |
| Utility Trans. (1 pg.); Fee Trans. in duplicate; Specification (24 pgs.); Drawings (7 sheets); Decl/POA (1 pgs.); 1595; Assignment (2 pgs.); IDS (2 pgs.); 1449; Check; Postcard  (Identify type of correspondence)  Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 3 CFR 1.10 in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 16, 2003    Kathleen Libby   | To Be Assigned              | Herewith                            |                                   |                              |  |
| Utility Trans. (1 pg.); Fee Trans. in duplicate; Specification (24 pgs.); Drawings (7 sheets); Decl/POA (1 pgs.); 1595; Assignment (2 pgs.); IDS (2 pgs.); 1449; Check; Postcard  (Identify type of correspondence)  Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under SCFR 1.10 in an envelope addressed to:  Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450  on September 16, 2003  Kathleen Libby (Typed or Printed Name of Person Mailing Correspondence)  EL 992 923 462 US ("Express Mail" Mailing Label Number)  | ention: MULTI-HOP WIF       | RELESS NETWORK DATA                 | A FORWARDING                      |                              |  |
| Identify type of correspondence)  Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under CFR 1.10 in an envelope addressed to:  Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 16, 2003  Kathleen Libby (Typed or Printed Name of Person Mailing Correspondent)  (Signature of Person Mailing Correspondent)  EL 992 923 462 US ("Express Mail" Mailing Label Number)   | <del></del>                 | <del></del>                         | fication (24 ogs.): Drawings (7   | 7 sheets): Decl/POA (8       |  |
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| s being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under SCFR 1.10 in an envelope addressed to:  Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450  on September 16, 2003  Kathleen Libby (Typed or Printed Name of Person Mailing Correspondents)  (Signature of Person Mailing Correspondents)  EL 992 923 462 US  ("Express Mail" Mailing Label Number)   |                             | •                                   |                                   |                              |  |
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| CFR 1.10 in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 16, 2003  Kathleen Libby (Typed or Printed Name of Person Mailing Correspondent)  (Signature of Person Mailing Correspondence)  EL 992 923 462 US  ("Express Mail" Mailing Label Number)   |                             | (Identify type o                    | of correspondence)                |                              |  |
| EL 992 923 462 US ("Express Mail" Mailing Label Number)  | Commissioner for Patents, I |                                     | Kathleen Libby                    | rson Mailing Correspondence, |  |
| EL 992 923 462 US ("Express Mail" Mailing Label Number)  |                             |                                     | Kathleen                          | Datalas                      |  |
| ("Express Mail" Mailing Label Number)  |                             |                                     | (Signature of Person N            | lailing Correspondence)      |  |
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